

112003



17021 U.S. PTO

17302 U.S. PTO  
10/719212

112003

FORM PTO-1082  
EXPRESS MAIL NO. ER631857523USPATENT DOCKET NO. 2080-3-198  
CUSTOMER NO. 035884

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of:  
 Won Hee Lee; Cheol Min Kim; Yoon Jei Hwang  
 Serial No:  
 Filed: Herewith  
 For: METHOD FOR CONTROLLING  
 COOLING/HEATING OF HEAT PUMP SYSTEM

Art Unit:

Examiner:

Mail Stop PATENT APPLICATION  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith for filing is the patent application identified above.

- ☒ 5 sheet(s) of drawings (☒ formal ☐ informal) is(are) enclosed.
- ☒ 15 page(s) of specification and 1 page(s) of abstract of the invention are enclosed.
- ☒ An assignment of the invention to LG Electronics Inc. ☒ is enclosed ☐ will follow.
- ☐ An associate power of attorney ☐ is enclosed ☐ will follow.
- ☐ Inventor(s) or Assignee(s) is entitled to small entity status under 37 C.F.R. §§ 1.9 & 1.27.
- ☒ Declaration and Power of Attorney ☒ is enclosed ☐ will follow.
- ☒ A certified copy of Korean Patent Application No. 10-2002-73108 filed on November 22, 2002, from which priority is claimed in the subject case pursuant to 35 U.S.C. § 119 ☒ will follow ☐ is enclosed.
- ☐ IDS enclosed (☐ with references).
- ☐ Preliminary Amendment is enclosed.

CALCULATION OF FEES								
ITEM		TOTAL NO. OF CLAIMS		NO. OF CLAIMS OVER BASE	LG/SM \$ ENTITY FEE		\$ AMOUNT	\$ FEE
A	TOTAL CLAIMS FEE	10	-20	0	LG=\$18 SM=\$9	\$ 18	\$ 0	
B	INDEPENDENT CLAIMS FEE*	2	-3	0	LG=\$86 SM=\$43	\$ 86	\$ 0	
C	SUBTOTAL - ADDITIONAL CLAIMS FEE (ADD FINAL COLUMN IN LINES A + B)							\$ 0
D	MULTIPLE-DEPENDENT CLAIMS FEE					LARGE ENTITY FEE = \$290 SMALL ENTITY FEE = \$145		\$ 0
E	BASIC FEE					LARGE ENTITY FEE = \$770 SMALL ENTITY FEE = \$385		\$ 770
F	TOTAL FILING FEE (ADD TOTALS FOR LINES C, D, AND E)							\$ 770
G	ASSIGNMENT RECORDING FEE						\$ 40	\$ 40
	*LIST INDEPENDENT CLAIMS [LIST OF INDEPENDENT CLAIMS]							

- ☒ A check in the amount of \$ 770 to cover the filing fee is enclosed.
- ☒ A check in the amount of \$ 40 to cover Assignment Recordation fee is enclosed.

☒ The Commissioner is hereby authorized to charge any deficiency for the following fees associated with this communication or credit any overpayment to Deposit Account No. 502290. A copy of this sheet is enclosed.


☒ Any additional filing fees required under 37 C.F.R. § 1.16

☒ Any patent application processing fees under 37 C.F.R. § 1.17

Respectfully submitted,

LEE, HONG, DEGERMAN, KANG & SCHMADEKA

Date: November 20, 2003

By: 

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CERTIFICATE OF MAILING VIA U.S. EXPRESS MAIL  
"Express Mail" Mailing Label No. ER631857523US  
Date of Deposit: November 20, 2003

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

I hereby certify that

- ☒ one copy of a letter of transmittal
- ☒ check in amount of \$ 770 as filing fee
- ☒ patent application ( 15 page(s) of specification: 10 claim(s); 1 page(s) of abstract
- ☒ 5 sheet(s) of formal drawings
- ☒ An assignment of the invention to LG Electronics Inc. ☒ is enclosed ☐ will follow
- ☒ A check in the amount of \$ 40 to cover Assignment Recordation fee is enclosed.
- ☒ executed Declaration and Power of Attorney ☒ is enclosed ☐ will follow
- ☐ An associate power of attorney ☐ is enclosed ☐ will follow.
- ☒ A certified copy of Korean Patent Application No. 10-2002-73108 filed on November 22, 2002, from which priority is claimed in the subject case pursuant to 35 U.S.C. § 119 ☒ will follow ☐ is enclosed
- ☐ IDS transmittal
- ☐ PTO-1449 form
- ☒ return postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service with sufficient postage under 37 C.F.R. § 1.10 on the date indicated above and are addressed to:

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Date: November 20, 2003

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Amit Sheth

Name of person mailing papers



Signature